

ABSTRACT

A europium-activated barium aluminate phosphor is described
5 wherein the phosphor is doped with tetravalent ions of Hf, Zr,
or Si. Preferably, the phosphor is represented by
 $(Ba_{1-x}Eu_x)MgAl_{10}O_{17}:(Hf, Zr, Si)_y$ where $0.05 \leq x \leq 0.25$ and
 $0 < y \leq 0.05$. The tetravalent dopant ions are shown to enhance
the stability of the phosphor in UV/VUV applications.